

## CLAIMS

1. A method for optimising quality of service in the packet-switched domain of a mobile communication system, a method wherein :

- a core network entity of said system sends to a radio access  
5 network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request including first information derived from quality of service information contained in a corresponding request received by said core network entity,
- said core network entity adds to said request second  
10 information known at its level and which can be used, together with said first information, to perform a call admission control at the radio level.

2. A method according to claim 1, wherein said second information include information representative of radio access capabilities of said mobile station.

- 15 3. A method according to claim 1, wherein said radio access capabilities include capabilities to support higher data rates.

4. A method according to claim 3, wherein said capabilities to support higher data rates include a multislot capability.

- 5. A method according to claim 3, wherein said capabilities to  
20 support higher data rates include a capability to support different data transfer modes.

6. A method according to claim 5, wherein said different data transfer modes include the GPRS (« General Packet Radio Service ») mode and the EGPRS (« Enhanced General Packet Radio Service ») mode.

- 25 7. A method according to claim 1, wherein said setting-up or reconfiguration of a radio bearer includes the creation or modification of a Packet Flow Context.

- 8. A method according to claim 7, wherein said request for the setting-up or reconfiguration of a corresponding radio bearer is sent in a  
30 CREATE BSS PFC message.

9. A network element for a core network entity (SGSN) of a mobile communication system, comprising means for performing a method according to claim 1.

10. A network element according to claim 9, wherein said means  
5 comprise:

- means for sending to a radio access network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request including first information derived from quality of service information contained in a corresponding  
10 request received by said core network entity,

- means for adding to said request second information known at its level and which can be used, together with said first information, to perform a call admission control at the radio level.

11. A network element of a Radio Access Network entity (BSS) of a  
15 mobile communication system, comprising means for performing a method according to claim 1.

12. A network element according to claim 11, wherein said means comprise:

- means for receiving from a core network entity of said  
20 system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request including first information derived from quality of service information contained in a corresponding request received by said core network entity, said request further including second information known at the level of said core network entity and which  
25 can be used, together with said first information, to perform a call admission control at the radio level.